

What is claimed is:

1. A scanner's optical device receive the light coming from an object to be scanned, comprising:

5 several reflective mirrors, provide reflection and directional change for the light and, by arranging several reflective mirrors appropriately, the light of the object to be scanned directionally changed to a predetermined route;

 a light-focusing module, comprising:

10 at least one curving mirror, focus the light of the predetermined route and then directionally change it;

 a raster, which is provided in the light route of the curving mirror for filtering out unnecessary light; and

 a charge coupled device, receive the light coming from the light-focusing module and convert it into electronic signals.

15 2. The scanner's optical device according to claim 1, wherein the raster has at least one transparent hole.

 3. The scanner's optical device according to claim 2, wherein the transparent hole is formed as long narrow stripe and extended horizontally.

20 4. The scanner's optical device according to claim 2, wherein the number of the transparent hole is plural and the transparent hole is formed as long narrow stripe and extended horizontally.

25 5. The scanner's optical device according to claim 1, wherein the curving mirror has two parallel long sides, two short sides that are intercrossed with the two long sides respectively, and a first plane and a second plane that are corresponded to each other and defined by the long sides and the short sides.

 6. The scanner's optical device according to claim 5, wherein the two short sides are bent to form a curving mirror with the first plane bent inwardly and the second plane projected outwardly.

30 7. The scanner's optical device according to claim 5, wherein the two

long sides are bent to form a curving mirror with the first plane bent inwardly and the second plane projected outwardly.

8. The scanner's optical device according to claim 5, wherein the two long sides and the two short sides are bent to same side direction simultaneously to form a curving mirror with the first plane bent inwardly and the second plane projected outwardly.

9. The scanner's optical device according to claim 1, wherein the optical device further has an image adjusting module, applied to calibrate and adjust the light image focused by the light-focusing module.

10. The scanner's optical device according to claim 1, wherein each curving mirror is all structured as a thin plate, of which one side surface is arranged and distributed with a coating layer of light-reflective material.

11. The scanner's optical device according to claim 10, wherein the coating layer is arranged and distributed on the inner curving surface of the curving mirror.

12. The scanner's optical device according to claim 1, wherein the optical device further has a casing applied for accommodating and positioning each reflective mirror, the light-focusing module, and the charge coupled device; furthermore, several connecting surfaces that are corresponded with each other with predetermined angles and positions are formed on the predetermined positions of the casing for providing a connecting and positioning function to the at least one curving mirror.

13. The scanner's optical device according to claim 12, wherein the connecting surface is designed as a curving surface formation that matched with the curvature of the curving appearance of the curving mirror, such that the curving mirror accommodated and positioned directly in the connecting surface.

14. The scanner's optical device according to claim 12, wherein the curving mirrors comprised of flexible materials and be pasted directly in the connecting surface.

15. The scanner's optical device according to claim 12, wherein the numbers of the curving mirror is plural.

16. The scanner's optical device according to claim 15, wherein the plural curving mirrors all have the same one curvature.

17. The scanner's optical device according to claim 15, wherein the plural curving mirrors have at least two different kinds of curvature.

5 18. The scanner's optical device according to claim 1, wherein the reflective mirror is adjustable and, by adjusting the relative positions of the several adjustable reflective mirrors, it change an optical length of a scanning procedure and, by appropriately arranging the several adjustable reflective mirrors, the light of the image of the object to be scanned will be
10 directionally changed to a predetermined route.